BRITISH TELECOMMUNICATIONS ENGINEERING

INDEX

VOLUME 17
(April 1998–January 1999)

including
TELECOMMUNICATIONS ENGINEERING: A Structured Information Programme
Issues 28–30

(Pages in the Special August edition are prefixed 'F')
(Units from the *Structured Information Programme* are indicated by 'S' followed by the Chapter and Unit numbers.)

VOLUME 17

Part 1 (Apr. 1998) ..... pp. 1–112
Part 2 (Special August 1998) ..... pp. F1–F206
Part 3 (Oct. 1998) ..... pp. 113–216
Part 4 (Jan. 1999) ..... pp. 217–320

STRUCTURED INFORMATION PROGRAMME

Chapter	Unit	Title	Issue	(Journal)
1	5	Market Trends in the Information Industry	29	Oct.98
2	5	Process	30	Jan. 99
4	2	Business Finanace (Rev.)	28	Apr. 98
4	10	Charging and Billing—The Fundamental Capabilities	30	Jan. 99
5	5	Network-Centric Computing	28	Apr. 98
16	8	Forming and Managing Alliances in the Communications Value Chain	29	Oct. 98

The *Structured Information Programme* was not issued with the Special August 1998 edition.

CASE STUDIES IN NATIONAL VOCATIONAL QUALIFICATIONS

Title		Journal
No.1: Providing a Telecommunications Service (Level 2): Cables and Equipment Terminating in Customer's Premises	NVQ 1	Apr. 98
No.2: Providing External Telecommunications Equipment (Level 2): Installing and Jointing External Copper Cables	NVQ 2	Jan. 99

A

ABRAHAM, SEAN. Technology for the Fixed Access Network F147
Access Network, Development of a Full Service F151
Access Network, Technology for the Fixed F147
Accounting (INCA) Project, The Inter-Network Call F68
ACTS Programme, Telecommunications for the Forthcoming Information Society—Evolutionary Perspectives from CONVAIR Project in the F198
ADAMOPOULOS, DIONISIS X.; and PAPANDREOU, CONSTANTINE A. Design of an Interactive Teletraining System F175
Advertising and Commerce in a Virtual Enterprise, Opportunities in E-Commerce: F170
Advice From the Trenches—Challenges for Telcos: Service and Network Management in a Multi-Provider Environment .. F7
Agent-Based Solutions for E-Commerce 237
AHERN, CLAIRE. The Euro Side of ATM—A Business Case!..... F139
ÅKERLUND, JOHN.; RIDDLEBERGER, CHRIS; LINDEMARK, BO.; MCMENAMIN, DAN; MOROYAMA, SEIICHI; YOTSOMOTO, KATSUICHI; POULIN, JACQUES; and PARSONS, JOHN. Powering the Internet—Datacommunications Equipment in Telecommunications Facilities: The Need for a DC Powering Option 185
ALFANO, GENNARO; and LAVAGNOLO, RAFFAELLA. Role of IN in Fixed and Mobile Convergence F124
AMANATIDOU, ZOI; BROCKBANK, ROBERT; and PEIRCE, STEPHEN. Computer Telephony Integration and Java 10
Antennas for UMTS, Smart F96
Any-Media Call Centre, The F155
Applications, Mobile Multimedia 18
Architectural and Technological Evolution in the Telecommunications Market: Trends and Innovations Towards the 2000s F190
ARNOTT, ROBERT; PONNEKANTI, SESHAIAH; and TAYLOR, CARL. Smart Antennas for UMTS F96
ASUMU, DON; and MELLIS, JOHN. GenOSys—Automated Tool for Planning Copper Greenfield Networks 281
ATM in the Corporate Network, Voice Over F132
ATM—A Business Case! The Euro Side of F139
Automated Tool for Planning Copper Greenfield Networks, GenOSys— 281
Automation, Implementing Software Tools for Planning 126

B

BALFOUR, GRAEME; WILBUR, SYLVIA; JOHNSON, HILARY; and FURNER, STEPHEN. Video-Based Virtual Clubs—Using Multimedia to Re-present Technology to Women 301
BARNSLEY, PETER; RUSSELL, CHRIS; and HOLLADAY, MAFF. The Future World of Telecommunications, 2005? 163
BARRETT, MARK.; CORREIA, MARGARIDA; KULKARNI, UMA; SMITH, KEVIN; and GIBBINGS, CHRIS. Broadband Multicast on BT's Futures Testbed 139
BARROW, ANGELA; GRACE, ANDREW; JACOBS, RICHARD; and COX, JON. Intranet-TV—Video Streaming for the World Wide Web 49
BATH, MARTIN; and SILK, RUSSELL. Future Trends in Satellite Communications 73
BEALES, KEITH. Guest Editorial: Structured Process Improvement 1
BEAUMONT, DAVID; and SELLEK, PAUL. SimDS—Modelling the Performance of Future Systems 94
BENNETT, SARAH; JOHNSON, BERNIE; and HOWELL, PETER. World-Class Network Power—Could That Ever Mean Us? 180
Billing—The Fundamental Capabilities, Charging and S4.10
BILSEN, GREET; and DEPUYDT, FRANCIS. A Methodology for Interoperable Network and Service Management System Design F53
Book Reviews 104, 210, 315
BOUCHORIS, PASCHALLIS. Strategic Positioning and Market Opportunities for Telecommunications Operators in the Internet Market F160
Broadband Multicast on BT's Futures Testbed 139
Broadcasting—Terrestrial: An Opportunity For The Broadcasting Market, Digital Video F195
BROCKBANK, ROBERT; PEIRCE, STEPHEN; and AMANATIDOU, ZOI. Computer Telephony Integration and Java 10
Brokering the Info-Underworld F202
BROOM, SIMON; COAKLEY, PHILIP; and SHEPPARD, PHIL. Getting the Message, Loud and Clear—Quantifying Call Clarity 66
BROWN, MEGAN. Customer Service—Key to Satisfaction and Loyalty 114
BT Intranet Complete Service, The 43
BT UK Core Transport Network, Evolution of the 296
BT's Futures Testbed, Broadband Multicast on 139
BT's Multi-Service Platform—The Customer Benefits F143
Business Case! The Euro Side of ATM—A F139
Business Cases, Teleservice F105
Business Communications, Convergence and Divergence in F182
Business Finance (Rev.) S4.2
Business Use of Internet Web Sites—Could Do Better! 56
Business, NetSquare: A Multi-Purpose Tool for Telecommunications F102
BUTLER, DAVID. Implementing Software Tools for Planning Automation 126

C

Call Accounting (INCA) Project, The Inter-Network F68
Call Centre, The Any-Media F155
Call Clarity, Getting the Message, Loud and Clear—Quantifying 66
CALLAGHAN, JAMES; and PIE, AUDREY. Business Use of Internet Web Sites—Could Do Better! 56
Carriers, Number Portability—An Opportunity for Alternative F83
CATCHPOLE, ANDREW. Voice-Data Convergence and the Corporate Voice-over-IP Trial 218
CAVAGGION, ROBERTO; PAPINI, BIANCA; ROSO, GIVOVANNI; and GAMARO, ANGELO. The Path of Liberalisation in Italy F29
Charging and Billing—The Fundamental Capabilities S4.10
CIPRIANI, LUCA. Architectural and Technological Evolution in the Telecommunications Market: Trends and Innovations Towards the 2000s F190
Clarity, Getting the Message, Loud and Clear—Quantifying Call 66
COAKLEY, PHILIP; SHEPPARD, PHIL; and BROOM, SIMON; Getting the Message, Loud and Clear—Quantifying Call Clarity 66
COBB, KEN; ROSE, MARK; and LAWRENCE, IAN. Structured Greenfield Planning 274
COCHRANE, PETER. pcochrane@btlabs—24-Hour Society 314
COCHRANE, PETER. pcochrane@btlabs—No Telephones 103
COCHRANE, PETER. pcochrane@btlabs—The Wrong Diagnosis 209
COCHRANE, PETER; HEATLEY, DAVID J. T.; WISELY, DAVID R.; and NEILD, IAN. A Review of Optical Wireless. What is it and what does it offer? 251
COCHRANE, RALPH; and DAVIES, JOHN. Knowledge Discovery and Delivery 25
Coexistence of Various Operators in the Mobile Telecommunications Market F92
COLLINGRIDGE, ROB; SHORROCK, GRAHAM; and TITHERIDGE, TIM. The BT Intranet Complete Service 43
Colour-Blind Users, 'The Eye of the Beholder'—Designing for 291
Combating Telecommunications Fraud in the Multi-Vendor Environment F80
Commerce in a Virtual Enterprise, Opportunities in E-Commerce: Advertising and F170
Commerce, Engendering Trust in Electronic 150
Communications, Convergence and Divergence in Business F182
Communications, Future Trends in Satellite 73
Communications Services, Convergent F88
Competitive Advantage for Operators, Implementing Service Management to F110
Competitiveness, Lean Operations—The Route to 2
Computer Telephony Integration and Java 10
Computing, Network-Centric S5.5
CONEY, SIMEON. Implementing Service Management to Competitive Advantage for Operators F110
Congress, 37th European Telecommunications 207
CONSTANTINESCU, ANDREI. NetSquare: A Multi-Purpose Tool for Telecommunications Business F102
CONVAIR Project in the ACTS Programme, Telecommunications for the Forthcoming Information Society—Evolutionary Perspectives from F198
Convergence and Divergence in Business Communications . F182
Convergence and the Corporate Voice-over-IP Trial, Voice-Data 218
Convergence Between Public Switching and the Internet 308
Convergence, Role of IN in Fixed and Mobile F124
Convergent Communications Services F88
Core Transport Network, Evolution of the BT UK 296
Corporate Network, Voice Over ATM in the F132

CORREIA, MARGARIDA; KULKARNI, UMA; SMITH, KEVIN; GIBBINGS, CHRIS; and BARRETT, MARK. Broadband Multicast on BT's Futures Testbed 139
COSIER, GRAHAM; and LEWIS, ALWYN. Whither Video?—Television and Telepresence 158
COSIER, GRAHAM; NIGHTINGALE, CHARLES; and LEWIS, ALWYN. Whither Video?—Videotelephony in Perspective 245
COX, JON; BARROW, ANGELA; GRACE, ANDREW; and JACOBS, RICHARD. Intranet-TV—Video Streaming for the World Wide Web 49
Cross-Border Interconnection F37
Customer Benefits, BT's Multi-Service Platform—The F143
Customer Satisfaction Measurement as a Key Strategic Input and Driver of Customer-Focussed Change in a Transforming Organisation, Using F3
Customer Service Delivery 113
Customer Service Skills, Developing 269
Customer Service—Key to Satisfaction and Loyalty 114

D

DANN, TONY; and PREVOST, STUART. IPv6—The Next Generation Internet 225
Data Convergence and the Corporate Voice-over-IP Trial, Voice- 218
Data Networks Integration F128
Datacommunications Equipment in Telecommunications Facilities: The Need for a DC Powering Option, Powering the Internet— 185
DAVIES, JOHN; and COCHRANE, RALPH. Knowledge Discovery and Delivery 25
DE BEULE, STEPHEN; and GILLET, FRED. Management of Intelligent Networks F115
DE PRAETERE, JULIEN; MARICAU, PHILIPPE; and VAN DROOGENBROECK, MARC. Data Networks Integration F128
DE VLAAM, HELEEN. Cross-Border Interconnection F37
DEPUYDT, FRANCIS.; and BILSEN, GREET. A Methodology for Interoperable Network and Service Management System Design F53
Design of an Interactive Teletraining System F175
Designing for Colour-Blind Users, 'The Eye of the Beholder'— 291
Developing Customer Service Skills 269
Development of a Full Service Access Network F151
Digital Video Broadcasting—Terrestrial: An Opportunity For The Broadcasting Market F195
DIONISI, SANDRO; FERRERO, UMBERTO; OMICCIOLI, STEPHANO; and TOFANELLI, ALDER. Development of a Full Service Access Network F151
Divergence in Business Communications, Convergence and F182
DUFOUR, IAN. Network-Centric Computing S5.5
DUKE, ALISTAIR. A People and Information Finder for Virtual Construction Project Teams 198

E

EC Telecommunications: Towards A New Regulatory Paradigm F43
E-Commerce, Agent-Based Solutions for 237
E-Commerce: Advertising and Commerce in a Virtual Enterprise, Opportunities in F170
EDWARDS, PAUL; and PHILLIPS, EDEN. The Inter-Network Call Accounting (INCA) Project F68
Electronic Commerce Service Trials, A Platform for 232
Electronic Commerce, Engendering Trust in 150
Engendering Trust in Electronic Commerce 150
Euro Side of ATM—A Business Case! The F139
European Telecommunications Congress, 37th 206
Evolution of the BT UK Core Transport Network 296
EXCELL, PAUL. BT's Multi-Service Platform—The Customer Benefits F143

F

FELBECKER-JANHO, HEIKE. New IN-Services in Liberalised Telecommunications Markets F76
FERRERO, UMBERTO; OMICCIOLI, STEPHANO; TOFANELLI, ALDER; and DIONISI, SANDRO. Development of a Full Service Access Network F151
Field Focus—Square Pole from a Square Hole 210
Finance, Business (Rev.) S4.2
Finder for Virtual Construction Project Teams, A People and Information 198
Fixed Access Network, Technology for the F147
Forming and Managing Alliances in the Communications Value Chain S16.8
FORSTER, ISABELLA; and JANDL, ANTON. Social Aspects at the End of Monopolism F20
Forthcoming Conferences 320
FOSS, JERRY. Brokering the Info-Underworld F202
Fraud in the Multi-Vendor Environment, Combating Telecommunications F80
FREEZE, Jim. Telecommunications Operators and Suppliers—The New Relationship F11
FURNER, STEPHEN; BALFOUR, GRAEME; WILBUR, SYLVIA; and JOHNSON, HILARY. Video-Based Virtual Clubs—Using Multimedia to Re-present Technology to Women 301
Future Networks, Micromachining 135
Future Switched Network: Strategy—Profiting from an Uncertain Future 172
Future Trends in Satellite Communications 73
Future World of Telecommunications, 2005? The 163
Futures Testbed, Broadband Multicast on BT's 139

G

GAMARO, ANGELO; CAVAGGION, ROBERTO; PAPINI, BIANCA; and ROSO, GIVOVANNI. The Path of Liberalisation in Italy F29
GenOSys—Automated Tool for Planning Copper Greenfield Networks 281
GERAADS, J. M. G.; and MEIJER, J. W. Convergence and Divergence in Business Communications F182
Germany Since 1998, Portability and Preselection in F1
Getting the Message, Loud and Clear—Quantifying Call Clarity 66
GIBBINGS, CHRIS; BARRETT, MARK; CORREIA, MARGARIDA; KULKARNI, UMA; and SMITH, KEVIN. Broadband Multicast on BT's Futures Testbed 139
GILBERT, MARK; LOCHTIE, GAIL; and NOBLE, ANDREW. Strategic Planning for Optimum Service Quality 120
GILLET, FRED; and DE BEULE, STEPHEN. Management of Intelligent Networks F115
Globalisation and Liberalisation, Regulatory Changes of Telecommunications in Spain for the New Era of F25
GOLDING, DON; HARMER, JULIE; MANNINGS, ROBIN; and RANDALL, PAUL. Mobile Multimedia Applications 18
GOLIAS, NIKOLAOS. Internet Telephony—Interconnect Issues, Impact on PNOs and Regulatory Implications F187
GRACE, ANDREW; JACOBS, RICHARD; COX, JON; and BARROW, ANGELA. Intranet-TV—Video Streaming for the World Wide Web 49
Greek Telecommunications Network, INXpress—Adding Service Management to the F120
Greenfield Networks, GenOSys—Automated Tool for Planning Copper 281
Greenfield Planning, Structured 274
Guest Editorial: Customer Service Delivery 113
Guest Editorial: Structured Process Improvement 1

H

HARMER, JULIE; MANNINGS, ROBIN; RANDALL, PAUL; and GOLDING, DON. Mobile Multimedia Applications 18
HAWKER, IAN. Evolution of the BT UK Core Transport Network .. 296
HEATLEY, DAVID J. T.; WISELY, DAVID R.; NEILD, IAN; and COCHRANE, PETER. A Review of Optical Wireless. What is it and what does it offer? 251
HILLIER, VICTORIA; and HOLMES, RHODA. Forming and Managing Alliances in the Communications Value Chain S16.8
HOLLADAY, MAFF; BARNSLEY, PETER; and RUSSELL, CHRIS. The Future World of Telecommunications, 2005? 163
HOLLEVOET, FERNAND. The Any-Media Call Centre F155
HOLMES, RHODA; and HILLIER, VICTORIA. Forming and Managing Alliances in the Communications Value Chain S16.8
HOOPER, RAY; and JONES, CAROLE. Lean Operations—The Route to Competitiveness 2
HOWELL, PETER; BENNETT, SARAH; and JOHNSON, BERNIE. World-Class Network Power—Could That Ever Mean Us? 180

I

Implementing Service Management to Competitive Advantage for Operators F110
Implementing Software Tools for Planning Automation 126
IN in Fixed and Mobile Convergence, Role of F124
Information Finder for Virtual Construction Project Teams, A People and 198

Information Society—Evolutionary Perspectives from CONVAIR Project in the ACTS Programme, Telecommunications for the Forthcoming F198
Info-Underworld, Brokering the F202
Innovations Towards the 2000s, Architectural and Technological Evolution in the Telecommunications Market: Trends and F190
IN-Services in Liberalised Telecommunications Markets, New F76
Integration and Java, Computer Telephony 10
Integration, Data Networks F128
Intelligent Networks, Management of F115
Intelligent On-line Purchasing 36
Interactive Teletraining System, Design of an F175
Interconnect Issues, Impact on PNOs and Regulatory Implications, Internet Telephony— F187
Interconnection, Cross-Border F37
Interconnection: Regulation and its Impact on Networks F33
Internet Telephony—Interconnect Issues, Impact on PNOs and Regulatory Implications F187
Internet Web Sites—Could Do Better! Business Use of 56
Internet, Convergence Between Public Switching and the 308
Internet, IPv6—The Next Generation 225
Internet, Pushing Opportunities on the F164
Internet—Datacommunications Equipment in Telecommunications Facilities: Need for a DC Powering Option, Powering the 185
Inter-Network Call Accounting (INCA) Project, The F68
Interoperable Network and Service Management System Design, A Methodology for F53
Intranet Complete Service, The BT 43
Intranet-TV—Video Streaming for the World Wide Web 49
INXpress—Adding Service Management to the Greek Telecommunications Network F120
IPv6—The Next Generation Internet 225
Italy, The Path of Liberalisation in F29

J

JACOBFEURERBORN, BRUNO. Coexistence of Various Operators in the Mobile Telecommunications Market F92
JACOBS, RICHARD; COX, JON; BARROW, ANGELA; and GRACE, ANDREW. Intranet-TV—Video Streaming for the World Wide Web 49
JANDL, ANTON; and FÖRSTER, ISABELLA. Social Aspects at the End of Monopolism F20
Java, Computer Telephony Integration and 10
JOHNSON, BERNIE; HOWELL, PETER; and BENNETT, SARAH. World-Class Network Power—Could That Ever Mean Us? 180
JOHNSON, HILARY; FURNER, STEPHEN; BALFOUR, GRAEME; and WILBUR, SYLVIA. Video-Based Virtual Clubs—Using Multimedia to Re-present Technology to Women 301
JONES, CAROLE; and HOOPER, RAY. Lean Operations—The Route to Competitiveness 2
JONES, TRISH. Developing Customer Service Skills 269
Journal Awards for 1997/98 204

K

KEMOS, ACHILLEAS; and ZAGANIARIUS, ALCIBIADE. Teleservice Business Cases F105
Knowledge Discovery and Delivery 25
KULKARNI, UMA; SMITH, KEVIN; GIBBINGS, CHRIS; BARRETT, MARK; and CORREIA, MARGARIDA. Broadband Multicast on BT's Futures Testbed 139

L

LAGACHERIE, FREDERIC; and MATTHEWS, ANN. Pushing Opportunities on the Internet F164
LAVAGNOLO, RAFFAELLA; and ALFANO, GENNARO. Role of IN in Fixed and Mobile Convergence F124
LAWRENCE, IAN; COBB, KEN; and ROSE, MARK. Structured Greenfield Planning 274
Lean Operations—The Route to Competitiveness 2
LEWIS, ALWYN; and COSIER, GRAHAM. Whither Video?—Television and Telepresence 158
LEWIS, ALWYN; COSIER, GRAHAM; and NIGHTINGALE, CHARLES. Whither Video?—Videotelephony in Perspective 245
Liberalisation in Italy, The Path of F29
Liberalisation, Regulatory Changes of Telecommunications in Spain for the New Era of Globalisation and F25
Liberalised Telecommunications Markets, New IN-Services in F76
Life With the Regulator F16
LINDEMARK, BO.; MCMENAMIN, DAN; MOROYAMA, SEIICHI; YOTSOMOTO, KATSUICHI; POULIN, JACQUES; PARSONS, JOHN; ÅKERLUND, JOHN; and RIDDLEBERGER, CHRIS. Powering the Internet—Datacommunications Equipment in Telecommunications Facilities: The Need for a DC Powering Option 185
LOCHTIE, GAIL; NOBLE, ANDREW; and GILBERT, MARK. Strategic Planning for Optimum Service Quality 120

M

Management of Intelligent Networks F115
MANNINGS, ROBIN; RANDALL, PAUL; GOLDING, DON; and HARMER, JULIE. Mobile Multimedia Applications 18
MARICAU, PHILIPPE; VAN DROOGENBROECK, MARC; and DE PRAETERE, JULIEN. Data Networks Integration F128
Market Opportunities for Telecommunications Operators in the Internet Market, Strategic Positioning and F160
Market Trends in the Information Industry S1.5
Market, Coexistence of Various Operators in the Mobile Telecommunications F92
Market: Trends and Innovations Towards the 2000s, Architectural and Technological Evolution in the Telecommunications F190
Markets, New IN-Services in Liberalised Telecommunications F76
MATTHEWS, ANN; and LAGACHERIE, FREDERIC. Pushing Opportunities on the Internet F164
MAXWELL, GRAEME. Micromachining Future Networks 135
MCCARTHY, LEON. Using Customer Satisfaction Measurement as a Key Strategic Input and Driver of Customer-Focussed Change in a Transforming Organisation F3
McClean, Basil. Charging and Billing—The Fundamental Capabilities S4.10
MCMENAMIN, DAN; MOROYAMA, SEIICHI; YOTSOMOTO, KATSUICHI; POULIN, JACQUES; PARSONS, JOHN; ÅKERLUND, JOHN; RIDDLEBERGER, CHRIS; and LINDEMARK, BO. Powering the Internet—Datacommunications Equipment in Telecommunications Facilities: The Need for a DC Powering Option 185
MEIJER, J. W.; and GERAADS, J. M. G. Convergence and Divergence in Business Communications F182
MELLIS, JOHN; and ASUMU, DON. GenOSys—Automated Tool for Planning Copper Greenfield Networks 281
Message, Loud and Clear—Quantifying Call Clarity, Getting the 66
Methodology for Interoperable Network and Service Management System Design, A F53
Micromachining Future Networks 135
Mobile Multimedia Applications 18
Mobile Radio—Service, Market Position and Technology, Professional 262
Mobile Telecommunications Market, Coexistence of Various Operators in the F92
Modelling the Performance of Future Systems, SimDS— 94
Monopolism, Social Aspects at the End of F20
MOROYAMA, SEIICHI; YOTSOMOTO, KATSUICHI; POULIN, JACQUES; PARSONS, JOHN; ÅKERLUND, JOHN; RIDDLEBERGER, CHRIS; LINDEMARK, BO; and MCMENAMIN, DAN. Powering the Internet—Datacommunications Equipment in Telecommunications Facilities: The Need for a DC Powering Option 185
MOUSTAKAS, KONSTANTINOS. Combating Telecommunications Fraud in the Multi-Vendor Environment F80
Multicast on BT's Futures Testbed, Broadband 139
Multimedia Applications, Mobile 18
Multimedia to Re-present Technology to Women, Video-Based Virtual Clubs—Using 301
Multi-Service Platform—The Customer Benefits, BT's F143

N

NEILD, IAN; COCHRANE, PETER; HEATLEY, DAVID J. T.; and WISELY, DAVID R. A Review of Optical Wireless. What is it and what does it offer? 251
NetSquare: A Multi-Purpose Tool for Telecommunications Business F102
Network and Service Management System Design, A Methodology for Interoperable F53
Network Management in a Multi-Provider Environment, Advice From the Trenches—Challenges for Telcos: Service and F7
Network, Development of a Full Service Access F151

Network, Evolution of the BT UK Core Transport 296
Network Performance Issues in a Multi-Provider Environment, Quality of Service and F61
Network, Technology for the Fixed Access F147
Network: Strategy—Profiting from an Uncertain Future, Future Switched 172
Network, Voice Over ATM in the Corporate F132
Network-Centric Computing S5.5
Networks Integration, Data F128
Networks, GenOSys—Automated Tool for Planning Copper Greenfield 281
Networks, Interconnection: Regulation and its Impact on F33
Networks, Micromachining Future 135
New IN-Services in Liberalised Telecommunications Markets F76
NIGHTINGALE, CHARLES; LEWIS, ALWYN; and COSIER, GRAHAM. Whither Video?—Videotelephony in Perspective 245
NIHOUL, PAUL. EC Telecommunications: Towards A New Regulatory Paradigm F43
NIKAKI, ELINA.Voice Over ATM in the Corporate Network F132
NOBLE, ANDREW; GILBERT, MARK; and LOCHTIE, GAIL. Strategic Planning for Optimum Service Quality 120
Number Portability—An Opportunity for Alternative Carriers F83
NÚÑEZ SUÁREZ, JORGE; and OWEN, MARTIN. Agent-Based Solutions for E-Commerce 237

O

OMICCIOLI, STEPHANO; TOFANELLI, ALDER; DIONISI, SANDRO; and FERRERO, UMBERTO. Development of a Full Service Access Network F151
On-line Purchasing, Intelligent 36
Operations—The Route to Competitiveness, Lean 2
Operators and Suppliers—The New Relationship, Telecommunications F11
Operators in the Mobile Telecommunications Market, Coexistence of Various F92
Opportunities in E-Commerce: Advertising and Commerce in a Virtual Enterprise F170
Opportunities on the Internet, Pushing F164
Optical Wireless. What is it and what does it offer?, A Review of 251
OWEN, MARTIN; and NÚÑEZ SUÁREZ, JORGE. Agent-Based Solutions for E-Commerce 237

P

PAPANDREOU, CONSTANTINE A.; and ADAMOPOULOS, DIONISIS X. Design of an Interactive Teletraining System F175
PAPINI, BIANCA; ROSO, GIVOVANNI; GAMARO, ANGELO; and CAVAGGION, ROBERTO. The Path of Liberalisation in Italy .. F29
PARSONS, JOHN; ÅKERLUND, JOHN; RIDDLEBERGER, CHRIS; LINDEMARK, BO; MCMENAMIN, DAN; MOROYAMA, SEIICHI; YOTSOMOTO, KATSUICHI; and POULIN, JACQUES. Powering the Internet—Datacommunications Equipment in Telecommunications Facilities: The Need for a DC Powering Option 185
Path of Liberalisation in Italy, The F29
pcochrane@btlabs—24-Hour Society 314
pcochrane@btlabs—No Telephones 103
pcochrane@btlabs—The Wrong Diagnosis 209
PEIRCE, STEPHEN; AMANATIDOU, ZOI; and BROCKBANK, ROBERT. Computer Telephony Integration and Java 10
People and Information Finder for Virtual Construction Project Teams, A 198
Performance Issues in a Multi-Provider Environment, Quality of Service and Network F61
Performance of Future Systems, SimDS— Modelling the 94
PETERS, SOENKE; and RUCKSTUHL, HANSPETER. Convergent Communications Services F88
PHILLIPS, EDEN; and EDWARDS, PAUL. The Inter-Network Call Accounting (INCA) Project F68
PIE, AUDREY; and CALLAGHAN, JAMES. Business Use of Internet Web Sites—Could Do Better! 56
Planning Automation, Implementing Software Tools for 126
Planning Copper Greenfield Networks, GenOSys—Automated Tool for 281
Planning for Optimum Service Quality, Strategic 120
Planning, Structured Greenfield 274
Platform for Electronic Commerce Service Trials, A 232
Platform—The Customer Benefits, BT's Multi-Service F143
POLESE, PETRO; and WEHR, MURYEL. Telecommunications for the Forthcoming Information Society—Evolutionary Perspectives from CONVAIR Project in the ACTS Programme F198
PONNEKANTI, SESHAIAH; TAYLOR, CARL; and ARNOTT, ROBERT. Smart Antennas for UMTS F96
Portability and Preselection in Germany Since 1998 ..... F1
Portability—An Opportunity for Alternative Carriers, Number F83
POULIN, JACQUES; PARSONS, JOHN; ÅKERLUND, JOHN; RIDDLEBERGER, CHRIS; LINDEMARK, BO; MCMENAMIN, DAN; MOROYAMA, SEIICHI; and YOTSOMOTO, KATSUICHI. Powering the Internet—Datacommunications Equipment in Telecommunications Facilities: The Need for a DC Powering Option 185
Power—Could That Ever Mean Us? World-Class Network ... 180
Powering the Internet—Datacommunications Equipment in Telecommunications Facilities: The Need for a DC Powering Option 185
Preselection in Germany Since 1998, Portability and F1
PREVOST, STUART; and DANN, TONY. IPv6—The Next Generation Internet 225
Process S2.5
Process Improvement, Guest Editorial: Structured 1
Professional Mobile Radio—Service, Market Position and Technology 262
Public Switching and the Internet, Convergence Between .. 308
Purchasing, Intelligent On-line 36
Pushing Opportunities on the Internet F164

Q

Quality of Service and Network Performance Issues in a Multi-Provider Environment F61
Quality, Strategic Planning for Optimum Service 120

R

Radio—Service, Market Position and Technology, Professional Mobile 262
RALPH, BONNIE. Market Trends in the Information Industry . S1.5
RAMÍREZ, JOSÉ. R. Regulatory Changes of Telecommunications in Spain for the New Era of Globalisation and Liberalisation .. F25
RANDALL, PAUL; GOLDING, DON; HARMER, JULIE; and MANNINGS, ROBIN. Mobile Multimedia Applications 18
REA, TIM; and SKEVINGTON, PETER. Engendering Trust in Electronic Commerce 150
Regulation and its Impact on Networks, Interconnection: F33
Regulator, Life With the F16
Regulatory Changes of Telecommunications in Spain for the New Era of Globalisation and Liberalisation F25
Regulatory Implications, Internet Telephony—Interconnect Issues, Impact on PNOs and F187
Regulatory Paradigm, EC Telecommunications: Towards A New F43
Review of Optical Wireless. What is it and what does it offer?, A 251
RIDDLEBERGER, CHRIS; LINDEMARK, BO.; MCMENAMIN, DAN; MOROYAMA, SEIICHI; YOTSOMOTO, KATSUICHI; POULIN, JACQUES; PARSONS, JOHN; ÅKERLUND, JOHN. Powering the Internet—Datacommunications Equipment in Telecommunications Facilities: The Need for a DC Powering Option 185
RIGDEN, CHRISTINE. 'The Eye of the Beholder'—Designing for Colour-Blind Users 291
ROCCHI, LUIGI.; and TEODORI, STEFANO. Digital Video Broadcasting—Terrestrial: An Opportunity For The Broadcasting Market F195
Role of IN in Fixed and Mobile Convergence F124
ROSE, MARK; LAWRENCE, IAN; and COBB, KEN; Structured Greenfield Planning 274
ROSO, GIVOVANNI; GAMARO, ANGELO; CAVAGGION, ROBERTO; and PAPINI, BIANCA. The Path of Liberalisation in Italy F29
ROSSO, Dino. R. Advice From the Trenches—Challenges for Telcos: Service and Network Management in a Multi-Provider Environment F7
RUCKSTUHL, HANSPETER; and PETERS, SOENKE. Convergent Communications Services F88
RUSSELL, CHRIS; HOLLADAY, MAFF; and BARNSLEY, PETER. The Future World of Telecommunications, 2005? 163

S

SARANTELLIS, ALEXANDROS. INXpress—Adding Service Management to the Greek Telecommunications Network . F120
Satellite Communications, Future Trends in 73
SCHENKE, Klaus. Portability and Preselection in Germany Since 1998 ..... F1
SCHOEN, HANS-ULRICH; and SCHOLZ, STEPHAN. Convergence Between Public Switching and the Internet 308

SCHOLZ, STEPHAN; and SCHOEN, HANS-ULRICH. Convergence Between Public Switching and the Internet 308
SELLEK, PAUL; and BEAUMONT, DAVID. SimDS—Modelling the Performance of Future Systems 94
Service and Network Management in a Multi-Provider Environment, Advice From the Trenches—Challenges for Telcos: F7
Service and Network Performance Issues in a Multi-Provider Environment, Quality of F61
Service Delivery, Customer 113
Service—Key to Satisfaction and Loyalty, Customer 114
Service Management System Design, A Methodology for Interoperable Network and F53
Service Management to Competitive Advantage for Operators, Implementing F110
Service Management to the Greek Telecommunications Network, INXpress—Adding F120
Service Quality, Strategic Planning for Optimum 120
Service, The BT Intranet Complete 43
SHEPPARD, PHIL; BROOM, SIMON; and COAKLEY, PHILIP. Getting the Message, Loud and Clear—Quantifying Call Clarity 66
SHORROCK, GRAHAM; TITHERIDGE, TIM; and COLLINGRIDGE, ROB. The BT Intranet Complete Service 43
SILK, RUSSELL; and BATH, MARTIN. Future Trends in Satellite Communications 73
SimDS—Modelling the Performance of Future Systems 94
SIMPSON, David. Life With the Regulator F16
SKEVINGTON, PETER; and REA, TIM. Engendering Trust in Electronic Commerce 150
SKOULARIDOU, VICTORIA E.; and TZELEPIS, KONSTANTINOS I. Opportunities in E-Commerce: Advertising and Commerce in a Virtual Enterprise F170
Smart Antennas for UMTS F96
SMITH, IAN. Guest Editorial: Customer Service Delivery 113
SMITH, KEVIN; GIBBINGS, CHRIS; BARRETT, MARK; CORREIA, MARGARIDA; and KULKARNI, UMA. Broadband Multicast on BT's Futures Testbed 139
Social Aspects at the End of Monopolism F20
Software Tools for Planning Automation, Implementing 126
Spain for the New Era of Globalisation and Liberalisation, Regulatory Changes of Telecommunications in F25
STAHL, UWE. Interconnection: Regulation and its Impact on Networks F33
STEWARD, SIMON; and VIDELO, IAN. Intelligent On-line Purchasing 36
Strategic Planning for Optimum Service Quality 120
Strategic Positioning and Market Opportunities for Telecommunications Operators in the Internet Market F160
Strategy—Profiting from an Uncertain Future, Future Switched Network: 172
Structured Greenfield Planning 274
Structured Process Improvement, Guest Editorial: 1
Suppliers—The New Relationship, Telecommunications Operators and F11
SWIFT, DAVID J.; and TOOKE, GEOFFREY. Number Portability—An Opportunity for Alternative Carriers F83
Switched Network: Strategy—Profiting from an Uncertain Future, Future 172
Switching and the Internet, Convergence Between Public 308
Systems, SimDS— Modelling the Performance of Future 94

T

TATTERSALL, PAUL. Professional Mobile Radio—Service, Market Position and Technology 262
TAYLOR, CARL; ARNOTT, ROBERT; and PONNEKANTI, SESHAIAH. Smart Antennas for UMTS F96
Technological Evolution in the Telecommunications Market: Trends and Innovations Towards the 2000s, Architectural and F190
Technology for the Fixed Access Network F147
Telecom Focus 106, 212, 316
Telecommunications Business, NetSquare: A Multi-Purpose Tool for F102
Telecommunications Congress, 37th European 207
Telecommunications Facilities: The Need for a DC Powering Option, Powering the Internet Datacommunications Equipment in 185
Telecommunications for the Forthcoming Information Society—Evolutionary Perspectives from CONVAIR Project in the ACTS Programme F198
Telecommunications Fraud in the Multi-Vendor Environment, Combating F80
Telecommunications in Spain for the New Era of Globalisation and Liberalisation, Regulatory Changes of F25
Telecommunications Market, Coexistence of Various Operators in the Mobile F92
Telecommunications Market: Trends and Innovations Towards the 2000s, Architectural and Technological Evolution in the F190
Telecommunications Markets, New IN-Services in Liberalised .. F76
Telecommunications Operators and Suppliers—The New Relationship F11
Telecommunications Operators in the Internet Market, Strategic Positioning and Market Opportunities for F160
Telecommunications, 2005? The Future World of 163
Telecommunications: Towards A New Regulatory Paradigm, EC F43
Telephony Integration and Java, Computer 10
Telephony—Interconnect Issues, Impact on PNOs and Regulatory Implications, Internet F187
Telepresence, Whither Video?—Television and 158
Teleservice Business Cases F105
Teletraining System, Design of an Interactive F175
Television and Telepresence, Whither Video?— 158
TEMPLAR, SIMON; and WALKER, DAVID. Business Finance (Rev.) ... S4.2
TEODORI, STEFANO; and ROCCHI, LUIGI. Digital Video Broadcasting—Terrestrial: An Opportunity For The Broadcasting Market F195
Terrestrial: An Opportunity For The Broadcasting Market, Digital Video Broadcasting— F195
Testbed, Broadband Multicast on BT's Futures 139
'The Eye of the Beholder'—Designing for Colour-Blind Users 291
37th European Telecommunications Congress 206
TITHERIDGE, TIM; COLLINGRIDGE, ROB; and SHORROCK, GRAHAM. The BT Intranet Complete Service 43
TOFANELLI, ALDER; DIONISI, SANDRO; FERRERO, UMBERTO; and OMICCIOLI, STEPHANO. Development of a Full Service Access Network F151
TOOKE, GEOFFREY; and SWIFT, DAVID J. Number Portability—An Opportunity for Alternative Carriers F83
Tool for Planning Copper Greenfield Networks, GenOSys—Automated 281
Tool for Telecommunications Business, NetSquare: A Multi-Purpose F102
Tools for Planning Automation, Implementing Software 126
Transforming Organisation, Using Customer Satisfaction Measurement as a Key Strategic Input and Driver of Customer-Focussed Change in a F3
Transport Network, Evolution of the BT UK Core 296
Trends and Innovations Towards the 2000s, Architectural and Technological Evolution in the Telecommunications Market: F190
Trends in Satellite Communications, Future 73
Trial, Voice-Data Convergence and the Corporate Voice-over-IP 218
Trials, A Platform for Electronic Commerce Service 232
Trust in Electronic Commerce, Engendering 150
TZELEPIS, KONSTANTINOS I.; and SKOULARIDOU, VICTORIA E. Opportunities in E-Commerce: Advertising and Commerce in a Virtual Enterprise F170

U

UMTS, Smart Antennas for F96
Users, 'The Eye of the Beholder'--Designing for Colour-Blind 291
Using Customer Satisfaction Measurement as a Key Strategic Input and Driver of Customer-Focussed Change in a Transforming Organisation F3

V

VAN DROOGENBROECK, MARC; DE PRAETERE, JULIEN; and MARICAU, PHILIPPE. Data Networks Integration F128
VERCELLI, ROBERTO. Quality of Service and Network Performance Issues in a Multi-Provider Environment ... F61
VIDELO, IAN; and STEWARD, SIMON. Intelligent On-line Purchasing 36
Video Broadcasting—Terrestrial: An Opportunity For The Broadcasting Market, Digital F195
Video Streaming for the World Wide Web, Intranet-TV— 49
Video?—Television and Telepresence, Whither 158
Video?—Videotelephony in Perspective, Whither 245
Video-Based Virtual Clubs—Using Multimedia to Re-present Technology to Women 301
Videotelephony in Perspective, Whither Video?— 225
Virtual Clubs—Using Multimedia to Re-present Technology to Women, Video-Based 301
Virtual Construction Project Teams, A People and Information Finder for 198

Virtual Enterprise, Opportunities in E-Commerce: Advertising and Commerce in a F170
Voice Over ATM in the Corporate Network F132
Voice-Data Convergence and the Corporate Voice-over-IP Trial 218

W

WALKER, DAVID; and TEMPLAR, SIMON. Business Finance (Rev.) S4.2
WARD, ROGER. Future Switched Network: Strategy—Profiting from an Uncertain Future 172
Web Sites—Could Do Better! Business Use of Internet 56
Web, Intranet-TV—Video Streaming for the World Wide 49
WEHR, MURYEL; and POLESE, PETRO. Telecommunications for the Forthcoming Information Society—Evolutionary Perspectives from CONVAIR Project in the ACTS Programme F198
Weller, Len. Process S2.5
Whither Video?—Television and Telepresence 158
Whither Video?—Videotelephony in Perspective 245
WILBUR, SYLVIA; JOHNSON, HILARY; FURNER, STEPHEN; and BALFOUR, GRAEME. Video-Based Virtual Clubs—Using Multimedia to Re-present Technology to Women 301
Wireless. What is it and what does it offer?, A Review of Optical 251
WISELY, DAVID R.; NEILD, IAN; COCHRANE, PETER; and HEATLEY, DAVID J. T. A Review of Optical Wireless. What is it and what does it offer? 251
WITTGREFFE, JOHN. A Platform for Electronic Commerce Service Trials 232
World-Class Network Power—Could That Ever Mean Us? ... 180

Y

YOTSOMOTO, KATSUICHI; POULIN, JACQUES; PARSONS, JOHN; ÅKERLUND, JOHN; RIDDLEBERGER, CHRIS; LINDEMARK, BO; MCMENAMIN, DAN; and MOROYAMA, SEIICHI. Powering the Internet—Datacommunications Equipment in Telecommunications Facilities: The Need for a DC Powering Option 185

Z

ZAGANIARIUS, ALCIBIADE; and KEMOS, ACHILLEAS. Teleservice Business Cases F105

Published by the *Institution of British Telecommunications Engineers*, pp2D05, The Angel Centre, 403 St. John Street, London EC1V 4PL
and printed in Great Britain by Headley Brothers Ltd, The Invicta Press, Queens Road, Ashford, Kent TN24 8HH